SEQUENCE LISTING

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· ·	=													tgg Trp		405
_		-			-							_	_	atc Ile		453
	_	_	_						_	_				acc Thr 50		501
	_				-	_	_	_		-			-	agc Ser		549
	_	_	_			_	_		_				_	cac His	_	597
gat	gta	ttc	cac	ttc	atg	gcc	gac	gac	att	ttc	agt	gtc	aac	atc	aca	645

Asp	Val 85	Phe	His	Phe	Met	Ala 90	Asp	Asp	Ile	Phe	Ser 95	Val	Asn	Ile	Thr	
					tac Tyr 105		_		-		-					693
	_			_	gct Ala							- •				741
					tcc Ser		_		-		-	_		_		789
					aag Lys											837
	Asp	Pro	Trp	Ala	gtg Val	Ser	Pro	Arg	Arg	Lys	Leu	Ile		~ ~	_	885
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					cgg Arg											981
_	_				tgg Trp							_		_		1029
				_	ggc Gly					-	_				_	1077
					att Ile											1125
					aag Lys 265											1173
					tac Tyr											1221
gtg Val	ggt Gly	gca Ala	ccc Pro 295	ttc Phe	act Thr	ggc Gly	tcc Ser	agc Ser 300	ctg Leu	gag Glu	ctg Leu	gga Gly	ccc Pro 305	tgg Trp	agc Ser	1269
cca Pro	gag Glu	gtg Val	ccc Pro	tcc Ser	acc Thr	ctg Leu	gag Glu	gtg Val	tac Tyr	agc Ser	tgc Cys	cac His	cca Pro	cca Pro	cgg Arg	1317

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	cct Pro						taat	gago	get <u>c</u>	gacto	ggato	gt co	cagag	gctgg	3	1992

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Leu Thr Trp Gln Asp Gln Tyr Glu Glu Leu Lys Asp Glu Ala Thr Ser
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Cys Ser Leu His Arg Ser Ala His Asn Ala Thr His Ala Thr Tyr Thr
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                                        75
                                                           80
Cys His Met Asp Val Phe His Phe Met Ala Asp Asp Ile Phe Ser Val
                85
                                   90
                                                       95
Asn Ile Thr Asp Gln Ser Gly Asn Tyr Ser Gln Glu Cys Gly Ser Phe
                               105
Leu Leu Ala Glu Ser Ile Lys Pro Ala Pro Pro Phe Asn Val Thr Val
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                            120
                                               125
Thr Phe Ser Gly Gln Tyr Asn Ile Ser Trp Arg Ser Asp Tyr Glu Asp
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Pro Ala Phe Tyr Met Leu Lys Gly Lys Leu Gln Tyr Glu Leu Gln Tyr
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Arg Asn Arg Gly Asp Pro Trp Ala Val Ser Pro Arg Arg Lys Leu Ile
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Ser Val Asp Ser Arg Ser Val Ser Leu Leu Pro Leu Glu Phe Arg Lys
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                               185
                                                   190
Asp Ser Ser Tyr Glu Leu Gln Val Arg Ala Gly Pro Met Pro Gly Ser
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                                               205
Ser Tyr Gln Gly Thr Trp Ser Glu Trp Ser Asp Pro Val Ile Phe Gln
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                                           220
Thr Gln Ser Glu Glu Leu Lys Glu Gly Trp Asn Pro His Leu Leu
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                                       235
                                                           240
Leu Leu Leu Val Ile Val Phe Ile Pro Ala Phe Trp Ser Leu Lys
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                                   250
                                                       255
Thr His Pro Leu Trp Arg Leu Trp Lys Lys Ile Trp Ala Val Pro Ser
            260
                               265
Pro Glu Arg Phe Phe Met Pro Leu Tyr Lys Gly Cys Ser Gly Asp Phe
        275
                           280
                                               285
Lys Lys Trp Val Gly Ala Pro Phe Thr Gly Ser Ser Leu Glu Leu Gly
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                                           300
Pro Trp Ser Pro Glu Val Pro Ser Thr Leu Glu Val Tyr Ser Cys His
305
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Pro Pro Arg Ser Pro Ala Lys Arg Leu Gln Leu Thr Glu Leu Gln Glu
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Pro Ala Glu Leu Val Glu Ser Asp Gly Val Pro Lys Pro Ser Phe Trp

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Pro Thr Ala Gln Asn Ser Gly Gly Ser Ala Tyr Ser Glu Glu Arg Asp
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Arg Pro Tyr Gly Leu Val Ser Ile Asp Thr Val Thr Val Leu Asp Ala
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Glu Gly Pro Cys Thr Trp Pro Cys Ser Cys Glu Asp Asp Gly Tyr Pro
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385
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Ala Leu Asp Leu Asp Ala Gly Leu Glu Pro Ser Pro Gly Leu Glu Asp
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Pro Leu Leu Asp Ala Gly Thr Thr Val Leu Ser Cys Gly Cys Val Ser
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                                                     430
            420
Ala Gly Ser Pro Gly Leu Gly Gly Pro Leu Gly Ser Leu Leu Asp Arg
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                             440
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Leu Lys Pro Pro Leu Ala Asp Gly Glu Asp Trp Ala Gly Gly Leu Pro
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Trp Gly Gly Arg Ser Pro Gly Gly Val Ser Glu Ser Glu Ala Gly Ser
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Pro Leu Ala Gly Leu Asp Met Asp Thr Phe Asp Ser Gly Phe Val Gly
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                                                          495
Ser Asp Cys Ser Ser Pro Val Glu Cys Asp Phe Thr Ser Pro Gly Asp
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Glu Gly Pro Pro Arg Ser Tyr Leu Arg Gln Trp Val Val Ile Pro Pro
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gatectgaag gagtaggtet gggacacage atg eec egg gge eea gtg get gee
                                                                       414
                                  Met Pro Arg Gly Pro Val Ala Ala
tta ctc ctg ctg att ctc cat gga gct tgg agc tgc ctg gac ctc act
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Leu Leu Leu Ile Leu His Gly Ala Trp Ser Cys Leu Asp Leu Thr
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tgc tac act gac tac ctc tgg acc atc acc tgt gtc ctg gag aca cgg
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Cys Tyr Thr Asp Tyr Leu Trp Thr Ile Thr Cys Val Leu Glu Thr Arg
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                                          35
agc ccc aac ccc agc ata ctc agt ctc acc tgg caa gat gaa tat gag
                                                                       558
Ser Pro Asn Pro Ser Ile Leu Ser Leu Thr Trp Gln Asp Glu Tyr Glu
                 45
                                      50
                                                          55
```

.

-		_	_		gag Glu			_	_			_				606
					tgg Trp		_	_		-	_	_				654
_		-	-	-	ttc Phe		_			_	_	_				702
			-	_	ggc Gly 110	-		_	_	_		_		_		750
-			-		gtg Val			-				_		_		798
		_		-	tat Tyr	_	_					-	_	-		846
_					ctg Leu	-					-	_			_	894
		_			aag Lys	_			-	_		-		-		942
			•	-	ttc Phe 190			_		_		-	-	-	-	990
	_			_	cca Pro									•		1038
					atc Ile				_	_					_	1086
		-			atg Met	_	_		_	-	_	-			•	1134
	_	_			ctg Leu				-							1182
					gtg Val 270								_		-	1230

and the second of the second o

				-				_			•			cct Pro 295		1278
_	_		_			_			_	-				aca Thr		1326
_			_		_			_	_		_	_		ccg Pro		1374
_	_		-	•			_		_	-		_		gag Glu		1422
-			_				_	_	•				-	tca Ser	~	1470
	_			_	_					_	-			gac Asp 375	aca Thr	1518
			_	-	_								_	agc Ser	-	1566
	_					_	_		-	_	_		-	gag Glu		1614
					_	_		-	_		_			ttt Phe	_	1662
		_	_	_			-							tcc Ser		1710
_				-		_					_	_	_	ggg Gly 455	_	1758
					_	-								ggc Gly		1806
_														ttt Phe		1854
	_	_	_						-					gat Asp	-	1902
gga	ccc	cct	cga	agc	tat	ctc	cgc	cag	tgg	gtg	gtc	agg	acc	cct	cca	1950

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to the control of the

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Gly Pro Pro Arg Ser Tyr Leu Arg Gln Trp Val Val Arg Thr Pro Pro
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                                                           520
505
                    510
cct gtg gac agt gga gcc cag agc agc tagcatataa taaccagcta
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Pro Val Asp Ser Gly Ala Gln Ser Ser
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tagtgagaag aggcctctga gcctggcatt tacagtgtga acatgtaggg gtgtgtgt
                                                                   2117
gtgtgtgtgt cttgggttgt gtgttagcac atccatgttg ggatttggtc tgttgctatg
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tattggaatg ctaaattctc tacccaaagt tctaggccta cgagtgaatt ctcatgttta
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Ile Thr Cys Val Leu Glu Thr Arg Ser Pro Asn Pro Ser Ile Leu Ser
Leu Thr Trp Gln Asp Glu Tyr Glu Glu Leu Gln Asp Gln Glu Thr Phe
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                       55
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Cys Ser Leu His Lys Ser Gly His Asn Thr Thr His Ile Trp Tyr Thr
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Cys His Met Arg Leu Ser Gln Phe Leu Ser Asp Glu Val Phe Ile Val
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                                   90
                85
Asn Val Thr Asp Gln Ser Gly Asn Asn Ser Gln Glu Cys Gly Ser Phe
            100
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Val Leu Ala Glu Ser Ile Lys Pro Ala Pro Pro Leu Asn Val Thr Val
Ala Phe Ser Gly Arg Tyr Asp Ile Ser Trp Asp Ser Ala Tyr Asp Glu
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Pro Ser Asn Tyr Val Leu Arg Gly Lys Leu Gln Tyr Glu Leu Gln Tyr
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Arg Asn Leu Arg Asp Pro Tyr Ala Val Arg Pro Val Thr Lys Leu Ile
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                                   170
Ser Val Asp Ser Arg Asn Val Ser Leu Leu Pro Glu Glu Phe His Lys
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                                                   190
Asp Ser Ser Tyr Gln Leu Gln Met Arg Ala Ala Pro Gln Pro Gly Thr
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                            200
                                               205
Ser Phe Arg Gly Thr Trp Ser Glu Trp Ser Asp Pro Val Ile Phe Gln
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                       215
                                           220
Thr Gln Ala Gly Glu Pro Glu Ala Gly Trp Asp Pro His Met Leu Leu
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                    230
                                       235
Leu Leu Ala Val Leu Ile Ile Val Leu Val Phe Met Gly Leu Lys Ile
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                245
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His Leu Pro Trp Arg Leu Trp Lys Lys Ile Trp Ala Pro Val Pro Thr
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                               265
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Pro Glu Ser Phe Phe Gln Pro Leu Tyr Arg Glu His Ser Gly Asn Phe

```
285
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        275
Lys Lys Trp Val Asn Thr Pro Phe Thr Ala Ser Ser Ile Glu Leu Val
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Pro Gln Ser Ser Thr Thr Ser Ala Leu His Leu Ser Leu Tyr Pro
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                     310
305
Ala Lys Glu Lys Lys Phe Pro Gly Leu Pro Gly Leu Glu Glu Gln Leu
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                325
Glu Cys Asp Gly Met Ser Glu Pro Gly His Trp Cys Ile Ile Pro Leu
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                                 345
Ala Ala Gly Gln Ala Val Ser Ala Tyr Ser Glu Glu Arg Asp Arg Pro
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                             360
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Tyr Gly Leu Val Ser Ile Asp Thr Val Thr Val Gly Asp Ala Glu Gly
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Leu Cys Val Trp Pro Cys Ser Cys Glu Asp Asp Gly Tyr Pro Ala Met
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Asn Leu Asp Ala Gly Arg Glu Ser Gly Pro Asn Ser Glu Asp Leu Leu
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Leu Val Thr Asp Pro Ala Phe Leu Ser Cys Gly Cys Val Ser Gly Ser
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Gly Leu Arg Leu Gly Gly Ser Pro Gly Ser Leu Leu Asp Arg Leu Arg
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Leu Ser Phe Ala Lys Glu Gly Asp Trp Thr Ala Asp Pro Thr Trp Arg
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Thr Gly Ser Pro Gly Gly Gly Ser Glu Ser Glu Ala Gly Ser Pro Pro
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Gly Leu Asp Met Asp Thr Phe Asp Ser Gly Phe Ala Gly Ser Asp Cys
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Gly Ser Pro Val Glu Thr Asp Glu Gly Pro Pro Arg Ser Tyr Leu Arg
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 Ser
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<213> Homo sapiens

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Thr Trp Glu Glu Ala Pro Leu Leu Thr Leu Lys Gln Lys Gln Glu Trp
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Ile Cys Leu Glu Thr Leu Thr Pro Asp Thr Gln Tyr Glu Phe Gln Val
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                             200
        195
Arg Val Lys Pro Leu Gln Gly Glu Phe Thr Trp Ser Pro Trp Ser
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Gln Pro Leu Ala Phe Arg Thr Lys Pro Ala Ala Leu Gly Lys Asp Thr
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Ile Pro Trp Leu Gly His Leu Leu Val Gly Leu Ser Gly Ala Phe Gly
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Phe Ile Ile Leu Val Tyr Leu Leu Ile Asn Cys Arg Asn Thr Gly Pro
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Trp Leu Lys Lys Val Leu Lys Cys Asn Thr Pro Asp Pro Ser Lys Phe
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Phe Ser Gln Leu Ser Ser Glu His Gly Gly Asp Val Gln Lys Trp Leu
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Ser Ser Pro Phe Pro Ser Ser Ser Phe Ser Pro Gly Gly Leu Ala Pro
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                     310
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Glu Ile Ser Pro Leu Glu Val Leu Glu Arg Asp Lys Val Thr Gln Leu
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                325
Leu Leu Gln Gln Asp Lys Val Pro Glu Pro Ala Ser Leu Ser Ser Asn
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                                 345
            340
His Ser Leu Thr Ser Cys Phe Thr Asn Gln Gly Tyr Phe Phe Phe His
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                             360
        355
Leu Pro Asp Ala Leu Glu Ile Glu Ala Cys Gln Val Tyr Phe Thr Tyr
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Asp Pro Tyr Ser Glu Glu Asp Pro Asp Glu Gly Val Ala Gly Ala Pro
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385
Thr Gly Ser Ser Pro Gln Pro Leu Gln Pro Leu Ser Gly Glu Asp Asp
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Ala Tyr Cys Thr Phe Pro Ser Arg Asp Asp Leu Leu Phe Ser Pro
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Ser Leu Leu Gly Gly Pro Ser Pro Pro Ser Thr Ala Pro Gly Gly Ser
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        435
Gly Ala Gly Glu Glu Arg Met Pro Pro Ser Leu Gln Glu Arg Val Pro
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                         455
    450
Arg Asp Trp Asp Pro Gln Pro Leu Gly Pro Pro Thr Pro Gly Val Pro
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Asp Leu Val Asp Phe Gln Pro Pro Pro Glu Leu Val Leu Arg Glu Ala
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                                      490
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Gly Glu Glu Val Pro Asp Ala Gly Pro Arg Glu Gly Val Ser Phe Pro
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                                 505
             500
Trp Ser Arg Pro Pro Gly Gln Gly Glu Phe Arg Ala Leu Asn Ala Arg
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Leu Pro Leu Asn Thr Asp Ala Tyr Leu Ser Leu Gln Glu Leu Gln Gly
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Gln Asp Pro Thr His Leu Val
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		35			Tyr		40					45			
	50				Leu	55					60				
65					Trp 70					75					80
				85	Cys				90					95	
			100		Val			105					110		
		115			Arg		120					125			
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145					Asn 150					155					160
_				165					170					175	
			180					185					190		Gln
		195					200					205			Gln
	210					215					220				Trp
225					230					235					Glu 240
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			260					265					270		Tyr
		275					280					285			Pro
	290					295					300				Gln
305					310					315					Gly 320
				325					330					335	
			340					345					350		Ser
		355					360					365			Phe
	370					375					380				Tyr
385					390					395					Ser 400
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Glu	GIn	Asp	420		Cys	Ala	rne	425		Arg	- ASP	nsp	430		Leu

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                    470
465
Pro Glu Gly Asp Gly Glu Gly Leu Ser Ala Asn Ser Ser Gly Glu Gln
                                     490
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Ala Ser Val Pro Glu Gly Asn Leu His Gly Gln Asp Gln Asp Arg Gly
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Gln Gly Pro Ile Leu Thr Leu Asn Thr Asp Ala Tyr Leu Ser Leu Gln
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Pro Arg Ser Arg Thr Phe Thr Cys Leu Thr Asn Asn Ile Leu Arg Ile
                         55
Asp Cys His Trp Ser Ala Pro Glu Leu Gly Gln Gly Ser Ser Pro Trp
                                         75
                    70
Leu Leu Phe Thr Ser Asn Gln Ala Pro Gly Gly Thr His Lys Cys Ile
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                 85
Leu Arg Gly Ser Glu Cys Thr Val Val Leu Pro Pro Glu Ala Val Leu
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                                 105
            100
Val Pro Ser Asp Asn Phe Thr Ile Thr Phe His His Cys Met Ser Gly
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Arg Glu Gln Val Ser Leu Val Asp Pro Glu Tyr Leu Pro Arg Arg His
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Val Lys Leu Asp Pro Pro Ser Asp Leu Gln Ser Asn Ile Ser Ser Gly
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145
                    150
His Cys Ile Leu Thr Trp Ser Ile Ser Pro Ala Leu Glu Pro Met Thr
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                                                          175
                 165
Thr Leu Leu Ser Tyr Glu Leu Ala Phe Lys Lys Gln Glu Glu Ala Trp
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Glu Gln Ala Gln His Arg Asp His Ile Val Gly Val Thr Trp Leu Ile Leu Glu Ala Phe Glu Leu Asp Pro Gly Phe Ile His Glu Ala Arg Leu Arg Val Gln Met Ala Thr Leu Glu Asp Asp Val Val Glu Glu Glu Arg Tyr Thr Gly Gln Trp Ser Glu Trp Ser Gln Pro Val Cys Phe Gln Ala Pro Gln Arg Gln Gly Pro Leu Ile Pro Pro Trp Gly Trp Pro Gly Asn Thr Leu Val Ala Val Ser Ile Phe Leu Leu Leu Thr Gly Pro Thr Tyr

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Leu Leu Phe Lys Leu Ser Pro Arg Val Lys Arg Ile Phe Tyr Gln Asn
                        295
Val Pro Ser Pro Ala Met Phe Phe Gln Pro Leu Tyr Ser Val His Asn
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305
                    310
Gly Asn Phe Gln Thr Trp Met Gly Ala His Arg Ala Gly Val Leu Leu
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                325
                                    330
Ser Gln Asp Cys Ala Gly Thr Pro Gln Gly Ala Leu Glu Pro Cys Val
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                                                     350
            340
Gln Glu Ala Thr Ala Leu Leu Thr Cys Gly Pro Ala Arg Pro Trp Lys
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Ser Val Ala Leu Glu Glu Glu Glu Gly Pro Gly Thr Arg Leu Pro
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                        375
                                             380
Gly Asn Leu Ser Ser Glu Asp Val Leu Pro Ala Gly Cys Thr Glu Trp
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                    390
385
Arg Val Gln Thr Leu Ala Tyr Leu Pro Gln Glu Asp Trp Ala Pro Thr
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Ser Leu Thr Arg Pro Ala Pro Pro Asp Ser Glu Gly Ser Arg Ser Ser
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Ser Ser Ser Ser Ser Ser Asn Asn Asn Tyr Cys Ala Leu Gly
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Cys Tyr Gly Gly Trp His Leu Ser Ala Leu Pro Gly Asn Thr Gln Ser
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                                             460
    450
Ser Gly Pro Ile Pro Ala Leu Ala Cys Gly Leu Ser Cys Asp His Gln
                                        475
                    470
Gly Leu Glu Thr Gln Gln Gly Val Ala Trp Val Leu Ala Gly His Cys
                485
Gln Arg Pro Gly Leu His Glu Asp Leu Gln Gly Met Leu Leu Pro Ser
            500
                                505
                                                     510
Val Leu Ser Lys Ala Arg Ser Trp Thr Phe
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                            520
      <210> 8
      <211> 468
      <212> PRT
      <213> Mus musculus
      <400> 8
Met Ala Leu Gly Arg Cys Ile Ala Glu Gly Trp Thr Leu Glu Arg Val
Ala Val Lys Gln Val Ser Trp Phe Leu Ile Tyr Ser Trp Val Cys Ser
                                25
Gly Val Cys Arg Gly Val Ser Val Pro Glu Gln Gly Gly Gly Gln
                            40
Lys Ala Gly Ala Phe Thr Cys Leu Ser Asn Ser Ile Tyr Arg Ile Asp
Cys His Trp Ser Ala Pro Glu Leu Gly Gln Glu Ser Arg Ala Trp Leu
                                         75
                    70
Leu Phe Thr Ser Asn Gln Val Thr Glu Ile Lys His Lys Cys Thr Phe
                85
Trp Asp Ser Met Cys Thr Leu Val Leu Pro Lys Glu Glu Val Phe Leu
                                105
                                                     110
            100
Pro Phe Asp Asn Phe Thr Ile Thr Leu His Arg Cys Ile Met Gly Gln
        115
                            120
                                                 125
Glu Gln Val Ser Leu Val Asp Ser Gln Tyr Leu Pro Arg Arg His Ile
    130
                        135
Lys Leu Asp Pro Pro Ser Asp Leu Gln Ser Asn Val Ser Ser Gly Arg
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Cys Val Leu Thr Trp Gly Ile Asn Leu Ala Leu Glu Pro Leu Ile Thr Ser Leu Ser Tyr Glu Leu Ala Phe Lys Arg Gln Glu Glu Ala Trp Glu Ala Arg His Lys Asp Arg Ile Val Gly Val Thr Trp Leu Ile Leu Glu Ala Val Glu Leu Asn Pro Gly Ser Ile Tyr Glu Ala Arg Leu Arg Val Gln Met Thr Leu Glu Ser Tyr Glu Asp Lys Thr Glu Gly Glu Tyr Tyr Lys Ser His Trp Ser Glu Trp Ser Gln Pro Val Ser Phe Pro Ser Pro Gln Arg Arg Gln Gly Leu Leu Val Pro Arg Trp Gln Trp Ser Ala Ser Ile Leu Val Val Pro Ile Phe Leu Leu Leu Thr Gly Phe Val His Leu Leu Phe Lys Leu Ser Pro Arg Leu Lys Arg Ile Phe Tyr Gln Asn Ile Pro Ser Pro Glu Ala Phe Phe His Pro Leu Tyr Ser Val Tyr His Gly Asp Phe Gln Ser Trp Thr Gly Ala Arg Arg Ala Gly Pro Gln Ala Arg Gln Asn Gly Val Ser Thr Ser Ser Ala Gly Ser Glu Ser Ser Ile Trp Glu Ala Val Ala Thr Leu Thr Tyr Ser Pro Ala Cys Pro Val Gln Phe Ala Cys Leu Lys Trp Glu Ala Thr Ala Pro Gly Phe Pro Gly Leu Pro Gly Ser Glu His Val Leu Pro Ala Gly Cys Leu Glu Leu Gly Gln Pro Ser Ala Tyr Leu Pro Gln Glu Asp Trp Ala Pro Leu Gly Ser Ala Arg Pro Pro Pro Pro Asp Ser Asp Ser Gly Ser Ser Asp Tyr Cys Met Leu Asp Cys Cys Glu Glu Cys His Leu Ser Ala Phe Pro Gly His Thr Glu Ser Pro Glu Leu Thr Leu Ala Gln Pro Val Ala Leu Pro Val Ser Ser Arg Ala